

UNITED STATES DEPARTMENT OF COMMERCE

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APPLICATION NO.	FILING DATE	FIRST NAMED	INVENTOR		ATTORNEY DOCKET NO.
09/149,424	09/08/98	GAUTIER		J	1948-4541
厂 JOSEPH A CAL	VARUSO ESQ	MMC2/1107	┐	TAMAT.K	EXAMINER
MORGAN & FIN 345 PARK AVE	NEGAN LLP		7	ART UNIT	
NEW YORK NY	10154-0053		.4	2834 Date Mailed) :

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

11/07/01

Notice of Informal Patent Application (PTO-152) Notice of Informal Patent Application (PTO-152)							
## Defice Action Summary Examiner			Application No.	Applicant(s)			
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The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. HE MALING DATE OF THIS COMMUNICATION. THE MALING DATE OF THIS COMMUNICATION. If the period for reply specified above it less man they (20) always, as negly be simply filed before they in specified above. The replication of 3 CPR 1.18(do), in no event, however, may a reply be simply filed before they in specified above. The replication profit will apply and vall expire 35 V, MONTH from the satisfied of 18 to exemise 3 the 18 period for reply specified above. The replication profit will apply and vall expire 35 V, MONTH from the satisfied and vall of the communication. The satisfied is the satisfied and the satisfied and vall of the satisfied and vall of the communication. The satisfied and	Office Action Summary		Examiner	Art Unit			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of the may be analysis under the provisions of 3 CFR 1.36(a). In the event, however, may a mply be timely filed after \$34,(b) MCMTS from the nating size of the communication. The provision of 17 CFR 1.36(a). In the event, however, may a mply be timely filed after \$34,(b) MCMTS from the nating size of the communication. The provision of Claims 4) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under £x parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) is/are allowed. 8) Claim(s) is/are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in aboyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is/are: a) approved by disapproved by the Examiner. 12) The coath or declaration is objected to by the Examiner. 12) The oath or declaration is objected to by the Examiner. 12) The oath or declaration is objected to by the Examiner. 12) All by Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All by Some * O; None of: 1. Certified copies of the priority documents have been received in A				2834			
Extensions of time may be available under the growinsons of 37 CPR 1.15(d), in no event, however, may a reply be timely filed Extensions of form may be available under the growinsons of 37 CPR 1.15(d), in no event, however, may a reply be timely filed If the pend for reply spondial above is less than thirty (30) days, a reply within the statutory provided are play available upon the making date of this common to the replace of the replay spondial above. In the same statutory provided his pays and ellipses to explore the making date of this commonitation, even if timely filed, may reduce any seamed patient term adjustment. Sea 37 CPR 1.704(b). Status 1) Responsive to communication(s) filled on 21 September 2001. 2a) This action is FINAL. 2b) This action is non-final. 3] Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5] Claim(s)	Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
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Claim(s)	2a)□						
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DETAILED ACTION

Claim Rejections - 35 USC ' 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 8-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 10 are vague and indefinite because it is unclear whether the applicant is attempting to claim an assembly of parts or an alternator. The independent claim 5 defines the invention as a assembly, while depend claims 8-10 define the invention as an alternator. The examiner suggests that all dependent claims having a preamble consistent(the same as) the parent independent claim.

Claim Rejections - 35 USC '103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. The rejection of Claims 1-17 under 35 U.S.C. 103(a) as being unpatentable over Mori et al.(Mori)(US 5,828,564) and Gautier(US 5,982,062) and Abadia et al.(Abadia)(US 5,883,450) are withdrawn.

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- 5. Claim 1, 2, 4-7, and 11-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Namba et al.(Namba)(US 4,472,649), Matthai(US 4,321,664), and Richards(US 3,812,390). Namba teaches diodes (70a, 70b figure 11) fixed to a cylindrical plinth 68, 76 with a plug portion force fit into an aperture and an abutment portion outside the aperture with a larger diameter than the plug portion and the aperture. The abutment portion between the plug portion and the diode. Namba teaches every aspect of the invention except the diode having a housing welded to the plinth. Matthai teaches the diode CH having a housing E1, E2, K, where E1 and E2 are metallic electrodes. Matthai does not teaches the diode housing being fixed by welding. Richards teaches the diodes fixed to a metal plate by welding to allow easy replacement. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the machine of Namba with the diode housing of Matthai to protect the diode and with the housing fixed to the plinth by welding to allow easy replacement as taught by Richards.
- 6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Namba et al.(Namba)(US 4,472,649), Matthai(US 4,321,664), and Richards(US 3,812,390).

 Namba teaches both an abutment portion with a cavity(figure 12) and an abutment portion which is larger than the plug portion(figure 11) providing an electrical connection, but does not teach the two together. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the machine of Namba, Matthai, and with the diode in a cavity as shown in Namba figure 12 with the

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outwardly extending abutment arms of figure 11 to provide a convenient place to provide axial and radial friction forces between the plug and the housing to securely hold the plith.

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- 7. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Namba et al.(Namba)(US 4,472,649), Matthai(US 4,321,664), and Richards(US 3,812,390), in further view of Hagenlocker et al.(Hagenlocker)(US 4,286,186). Namba, Matthai, and Richards teach every aspect of the invention except the plug portion fit into a hole of an alternator support which is on the opposite the stator. Hagenlocher teaches the diodes mounted on a support with a hole on the opposite side of a stator. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the machine of Namba, Matthai, and Richards with the support of Hagenlocher to utilize the diodes in an alternator.
- 8. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Namba et al.(Namba)(US 4,472,649), Matthai(US 4,321,664), Richards(US 3,812,390), and Hagenlocker et al.(Hagenlocker)(US 4,286,186), in further view of Mori et al.(Mori)(US 5,828,564). Namba, Matthai, Richards, and Hagnetlocker teach every aspect of the invention except the hole being a blind hole. Mori teaches the diode mounted on a plinth 310 in a blind hole to allow thermal dissipation from under the diode. It would have been obvious to a person of ordinary skill in the art at the time of the invention to

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construct the machine of Namba, Matthai, Richards, and Hagenlocher with a blind diode hole to allow thermal dissipation from under the diode.

Response to Arguments

- 9. Applicant's arguments with respect to claims 1-17 have been considered but are moot in view of the new grounds of rejection.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (703) 305-7066.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Nestor Ramirez, can be reached at (703)308-1371. The facsimile number for the Group is (703)305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Karl I Tamai PRIMARY PATENT EXAMINER November 2, 2001